

Reply to Office Action dated December 17, 2003

### **REMARKS**

Claims 14-16, 18, and 20 are pending. By this Amendment, claim 14 is amended, and claim 17 is canceled without prejudice or disclaimer. Support for the claims can be found throughout the specification, including the original claims, and the drawings. Reconsideration and withdrawal of the rejection in view of the above amendments and following remarks is respectfully requested.

The Office Action rejected claims 14-18 under 35 U.S.C. §103(a) as being unpatentable over Johnson et al. (hereinafter "Johnson"), U.S. Patent No. 6,181,283, in view of Miller, U.S. Patent No. 4,593,409, and further in view of Moren et al. (hereinafter "Moren"), U.S. Patent Publication No. 2002/0000940 A1. Claim 17 is canceled and thus the rejection is moot with respect to claim 17. The rejection is respectfully traversed in so far as it applies to amended independent claim 14, and claims 15-16, 18, and 20, which depend therefrom.

None of the applied references discloses or suggests the combination of a battery cell, an antenna electrically connected with a mobile phone main body and implemented at a predetermined position adjacent to the battery cell, and a battery pack holding the battery cell and the antenna therein, wherein the antenna is formed by a plurality of wires that lie in a plane that extends parallel to an upper surface of the battery cell, as recited in amended claim 14. The positioning of the plurality of wires in a plane that extends parallel to an upper surface of the battery cell provides for improved reception over prior art devices.

Reply to Office Action dated December 17, 2003

In contrast, Johnson discloses a detachable assembly 16 for a handset 14, containing a battery component 20 and an antenna assembly 30 positioned on a backside surface of the detachable assembly 16. Miller and Moren fail to overcome the deficiencies of Johnson. That is, Miller is merely cited for allegedly teaching positioning an antenna within a removable battery pack/antenna and gives no further details of the antenna structure or the position of the antenna. Moran is merely cited for allegedly teaching an antenna formed of two wires with meander patterns. Accordingly, the teachings of Johnson, Miller, and Moren, taken alone or in combination, fail to disclose or suggest the claimed invention of independent claim 14.

Thus, the rejection of independent claim 14 over the Johnson-Miller-Moren combination should be withdrawn. Dependent claim 15-16, 18, and 20 are allowable at least for the reasons discussed above with respect to independent claim 14, from which they depend, as well as for their added features.

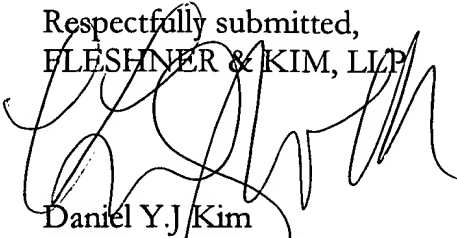
In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **Carol L. Druzbeck**, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this,

Reply to Office Action dated December 17, 2003

concurrent and future replies, including extension of time fees, to Deposit Account 16-0607  
and please credit any excess fees to such deposit account.

Respectfully submitted,  
FLESHNER & KIM, LLP



Daniel Y.J. Kim  
Registration No. 36,186  
Carol L. Druzbeck  
Registration No. 40,287

P.O. Box 221200  
Chantilly, Virginia 20153-1200  
703 766-3701 DYK:CLD/kah

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**Please direct all correspondence to Customer Number 34610**